

CITY OF BOULDER, COLORADO
BOARDS AND COMMISSIONS MEETING MINUTES

Name of Board / Commission: Water Resources Advisory Board	
Date of Meeting: 14 December 2015	
Contact Information of Person Preparing Minutes: Rene Lopez 303-413-7149	
Board Members Present: Vicki Scharnhorst, Dan Johnson, Mark Squillace, Lesley Smith, Mike Barnes	
Board Members Absent: None	
Staff Present: Jeff Arthur, Director of Public Works for Utilities Douglas Sullivan, Acting Principal Engineer for Water, Wastewater and Stormwater Bret Linenfelter, Water Quality and Environmental Services Manager Chris Douville, Wastewater Treatment Manager Russ Sands, Watershed Sustainability and Outreach Supervisor Candice Owen, Stormwater Quality Engineer Lauren Shuler, Infrastructure Resilience Outreach Coordinator Rene Lopez, Board Secretary	
Consultants Present: None	
Meeting Type: Regular	
Agenda Item 1 – Call to Order	[6:59 p.m.]
Agenda Item 2 – Approval of the 16 November 2015 Meeting Minutes [7:01 p.m.] Motion to approve minutes from 16 November 2015 as amended. Moved by: Squillace Seconded by: Barnes Vote: 5:0	
Agenda Item 3 – Public Participation and Comment	[7:01 p.m.]
Public Comment: None	
Agenda Item 4 – Public Hearing and Consideration of a Motion Regarding WRAB response to City Council Retreat Questions	[7:16 p.m.]
Public Comment: None	
Motion to approve as amended. Moved by: Barnes Seconded by: Smith Vote: 5:0	
Agenda Item 5 – Update on Stormwater Collection System Permit and Regulation Changes	[7:17 p.m.]
<p>Russ Sands and Candice Owen presented this item.</p> <p>Executive Summary from the Packet Materials: The purpose of this memorandum is to update WRAB on the status of key permit compliance items associated with the treated effluent from the 75th Street Wastewater Treatment Facility (WWTF). The Colorado Discharge Permit System (CDPS) permit renewal is the first high priority item, and important regulatory issues are also covered herein. The outcome of the WWTF permit renewal has significant and direct impacts on how the WWTF is operated, maintained, and sets necessary funding schedules associated with the Capital Improvements Projects (CIP) program, which in turn affects the Wastewater Utility Fund and rates of wastewater services within the community. City staff remain proactive with respect to upcoming regulatory concerns that could impact the city's wastewater treatment program. Some of the regulatory issues are aspects of the current permit and have evolved over time (i.e. copper, arsenic, temperature). Examples of new issues that are expected to be implemented in the WWTF permit renewal are nitrate and nutrients. Current status of each regulatory item</p> <p>WRAB Discussion Included:</p> <ul style="list-style-type: none"> Comments regarding residential education for keeping nutrients out of the system 	

<ul style="list-style-type: none"> • Comments regarding e.coli and storm drain upgrades • Questions regarding outfalls on Boulder creek 	
<p>Agenda Item 6 – Update on Wastewater Treatment Facility Permit Renewal and Regulatory Activities [7:58 p.m.]</p> <p>Chris Douville and Bret Linenfelser presented this item.</p> <p>Executive Summary from the Packet Materials: The purpose of this Information Item is to provide the Water Resources Advisory Board (WRAB) a summary of various sustainability and outreach initiatives that are being developed and implemented by the Watershed Sustainability and Outreach (WSO) Program that was created in 2014 as part of the Public Works, Utilities, Water Quality and Environmental Services (WQES) Group. This item does not require WRAB action and is intended to provide WRAB with a background on the WSO Program and related initiatives the WSO Program has helped lead.</p> <p>WRAB Discussion Included:</p> <ul style="list-style-type: none"> ○ Comments regarding impacts to the stream from climate change; specifically temperature standards 	
<p>Agenda Item 7 – Information Item: Update on Wastewater Treatment Facility Renewable Energy [8:46 p.m.]</p> <p>Chris Douville and Douglas Sullivan presented this item</p> <p>Executive Summary from the Packet Materials: The purpose of this memorandum is to provide an update to WRAB on renewable energy systems at the 75th Street Wastewater Treatment Facility (WWTF). Current status and future opportunities are covered. The annual operating costs for the WWTF are significantly affected by electricity demands and use. Annually, over \$500,000 of grid electricity is purchased from Xcel (representing over 10% of the total annual O&M budget). Next year, the Cogeneration (Cogen) System will be 30 years old. Overall the system has performed well and has provided alternative electric power generation as well as beneficial heat recovery since its inception. As all systems have a limited life cycle, the Cogen system is nearing the end of its useful life. The electrical and control systems for Cogen are of particular concern, and at some point will cause Cogen to become unreliable and unsafe. A key upcoming decision will be whether to re-invest in Cogen and continue to produce electricity, or whether to pursue a different pathway which utilizes the biogas as a fuel commodity. The Solar Photovoltaic (PV) System reached the 5-year operational milestone in July 2015. Because of the third party ownership by SunEdison and associated O&M responsibility, the city has benefitted from purchasing affordable, clean, alternative source power with minimal burden or complications. In 2014, Utilities staff investigated the possibility of installing an additional Solar PV array adjacent to the SunEdison system, but ultimately declined due to several factors including cost and Utilities work plan priorities.</p> <p>WRAB Discussion Included:</p> <ul style="list-style-type: none"> ○ Discussions regarding a greenhouse gas impact on the environment ○ Comments on CNG vehicle viability 	
<p>Agenda Item 8 – Matters from Board:</p> <ul style="list-style-type: none"> ○ Scharnhorst <ul style="list-style-type: none"> ▪ Operational agreement 	[9:44 p.m.]
<p>Agenda Item 9 - Matters from Staff:</p> <ul style="list-style-type: none"> ○ Schuler <ul style="list-style-type: none"> ▪ Reducing inflow and infiltration into the sanitary sewer 	[9:47 p.m.]
<p>Agenda Item 9 – Future Schedule</p> <p>The March 2016 meeting is over spring break – the board should look at scheduling the meeting one week prior or later to better accommodate schedules.</p> <p>The next WRAB meeting has been moved back to January 25th rather than Jan. 18th due to the holiday.</p>	[9:50 p.m.]
Adjournment	[10:04p.m.]

There being no further business to come before the Board at this time, by motion regularly adopted, the meeting was adjourned at 10:04 p.m.

Motion to adjourn by: Smith **Seconded by:** Squillace

Motion Passes 5:0

Date, Time, and Location of Next Meeting:

The next WRAB meeting will be **Monday, January 25th 2016 at 7:00 p.m.**, at the **City's Municipal Services Center, 5050 East Pearl St., Boulder, CO 80301**

APPROVED BY:

ATTESTED BY:

Board Chair

Board Secretary

Date

Date

An audio recording of the full meeting for which these minutes are a summary, is available on the Water Resources Advisory Board web page.

<https://bouldercolorado.gov/boards-commissions/water-resources-advisory-board-next-meeting-agenda-and-packet>